West Virginia Department of Environmental Protection Division of Air Quality

Fact Sheet



For Draft/Proposed Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: R30-01700011-2012
Application Received: July 28, 2011
Plant Identification Number: 01700011
Permittee: Dominion Transmission, Inc.
Facility Name: West Union Plant
Mailing Address: 445 West Main Street

Clarksburg, WV 26301

Physical Location: West Union, Doddridge County, West Virginia

UTM Coordinates: 516.45 km Easting • 4352.50 km Northing • Zone 17

Directions: 5 miles north of West Union on Highway 18, Doddridge County

Facility Description

The West Union Plant is a natural gas liquids extraction facility. Propane and heavier components of natural gas are removed through a turbo-expander cryogenic process, and a mixed natural gas liquids product is produced. It is covered by primary Standard Industrial Code (SIC) 1321 and secondary SIC 4922. The plant has the potential to operate seven (7) days per week, twenty-four (24) hours per day. The plant consists of two (2) 730-hp natural gas fired reciprocating engines and 8 storage tanks.

Emissions Summary

Plantwide Emissions Summary [Tons per Year]			
Regulated Pollutants	Potential Emissions	2010 Actual Emissions	
Carbon Monoxide (CO)	12.7	7.55	
Nitrogen Oxides (NO _X)	267.88	159.25	
Particulate Matter (PM ₁₀)	0.54	0.32	
Total Particulate Matter (TSP)	0.54	0.32	
Sulfur Dioxide (SO ₂)	0.03	0	
Volatile Organic Compounds (VOC)	77.68	51.97	

Hazardous Air Pollutants	Potential Emissions	2010 Actual Emissions	
Formaldehyde	1.16	0.69	
Acrolein	0.16	0.09	
Acetaldehyde	0.15 0.09		
Benzene	0.09	0.05	
Ethylbenzene	< 0.01	0	
Toluene	0.03	0.02	
Xylene	0.01	0.01	
TOTAL HAPs	1.61	0.95	
Regulated Pollutants other than Criteria and HAP:			
CO2e	6,827.65	Not reported	

Some of the above HAPs may be counted as PM or VOCs.

Title V Program Applicability Basis

This facility has the potential to emit 267.88 tons/yr of NOx. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Dominion Transmission, Inc is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR6	Open burning prohibited.
	45CSR11	Standby plans for emergency episodes.
	45CSR13	Pre-construction permit
	45CSR16	Standards of Performance for New
		Stationary Sources 40CFR60
	WV Code § 22-5-4 (a) (14)	The Secretary can request any pertinent
		information such as annual emission
		inventory reporting
	45CSR30	Operating permit requirement
	40 C.F.R. Part 60, KKK	Equipment leaks of VOC from Onshore
		Natural Gas Processing Plants
	40 C.F.R. Part 60, VV ¹	Equipment Leaks of VOC in the Synthetic
		Organic Chemicals Manufacturing Industry
	40 C.F.R. Part 61	Asbestos inspection and removal
	40 C.F.R. Part 63, Subpart ZZZZ	National Emission Standards for Hazardous
		Air Pollutants for Stationary Reciprocating
		Internal Combustion Engines
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances
State Only:	45CSR4	No objectionable odors.
	45CSR17	Particulate Fugitive

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or	Date of	Permit Determinations or Amendments That
Consent Order Number	Issuance	Affect the Permit (if any)
None		

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table B," which may be downloaded from DAQ's website.

¹Requirements incorporated by reference in 40 C.F.R. 60, Subpart KKK.

Determinations and Justifications

The following are changes/additions to the most recent Title V permit for this facility:

- 1. Emission Units Table 1.1 added Tanks TK01 TK08. These Tanks do not have applicable requirements (see Non-Applicability Determinations section below, items 2 through 4).
- 2. Section 4.0 added to include provisions of Part 63 Subpart ZZZZ "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" applicable to the following reciprocating internal combustion engines (RICE):

Engine	Design Capacity	Ignition	Use/Type	Year installed	HAP Source Classification
001-01*	730 HP	Spark Ignited	Non-emergency, 4Stroke Rich Burn	1984 (existing)*	Area source
001-02*	730 HP	Spark Ignited	Non-emergency, 4Stroke Rich Burn	1984 (existing)*	Area source

^{*} area source units constructed before June 12, 2006 (§63.6590(a)(1)(iii))

- 3. Appendix A added section §60.633 Exceptions to Part 60 Subpart KKK applicable requirements.
- 4. Appendix B was added to include applicable requirements of 40 C.F.R. 60 Subpart VV.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

- 40 C.F.R. 63, Subpart HH "National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities" is not applicable to West Union plant because it doesn't have a "triethylene glycol (TEG) dehydration unit located at a facility" (as per 40 C.F.R. §63.760(b)(2)). Additionally, the Subpart HH requirements for natural gas liquids extraction do not apply to non-Major/Area HAP sources.
- 40 C.F.R. 60, Subpart K "Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction or Modification Commenced after June 11, 1973 and prior to May 19, 1978" – all tanks were constructed after July 23, 1984, therefore they are exempt them from this subpart.
- 40 C.F.R. 60, Subpart Ka "Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction or Modification Commenced after May 18, 1978 and prior to July 23, 1984" – all tanks were constructed after July 23, 1984, therefore they are exempt them from this subpart.
- 4. 40 C.F.R. 60, Subpart Kb "Standards of Performance for VOC Storage Vessels for Which Construction, Reconstruction or Modification Commenced after July 23, 1984": tanks TK01 through TK05 are below the minimum size threshold of 75 m³ (19,813 gal), therefore they are exempt from the requirements of this Subpart per 40 CFR §60.110b(a). The NGL tanks (TK06 TK08) size (30,000 gal) is in the applicable range of 75 m³ 151 m³ (19,813 gal 39,890 gal), but they are pressure vessels designed to operate at 1,034 kPa (in excess of 204.9 kPa), and do not have emissions to the atmosphere. Therefore, they are exempt per 40 CFR §60.110b(d)(2).
- 5. 40 C.F.R. 64 Engines do not have any control; Therefore, in accordance with 40 C.F.R. §64.2(a)(2), CAM is not applicable to the engines.

6. There are no Greenhouse Gas Clean Air Act requirements for this facility because this renewal has not triggered a PSD permit.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: January 10, 2012 Ending Date: February 9, 2012

All written comments should be addressed to the following individual and office:

Natalya V. Chertkovsky-Veselova Title V Permit Writer West Virginia Department of Environmental Protection Division of Air Quality 601 57th Street SE Charleston, WV 25304

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Point of Contact

Natalya V. Chertkovsky-Veselova West Virginia Department of Environmental Protection Division of Air Quality 601 57th Street SE Charleston, WV 25304

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Response to Comments (Statement of Basis)

N/A